

FIG. 1

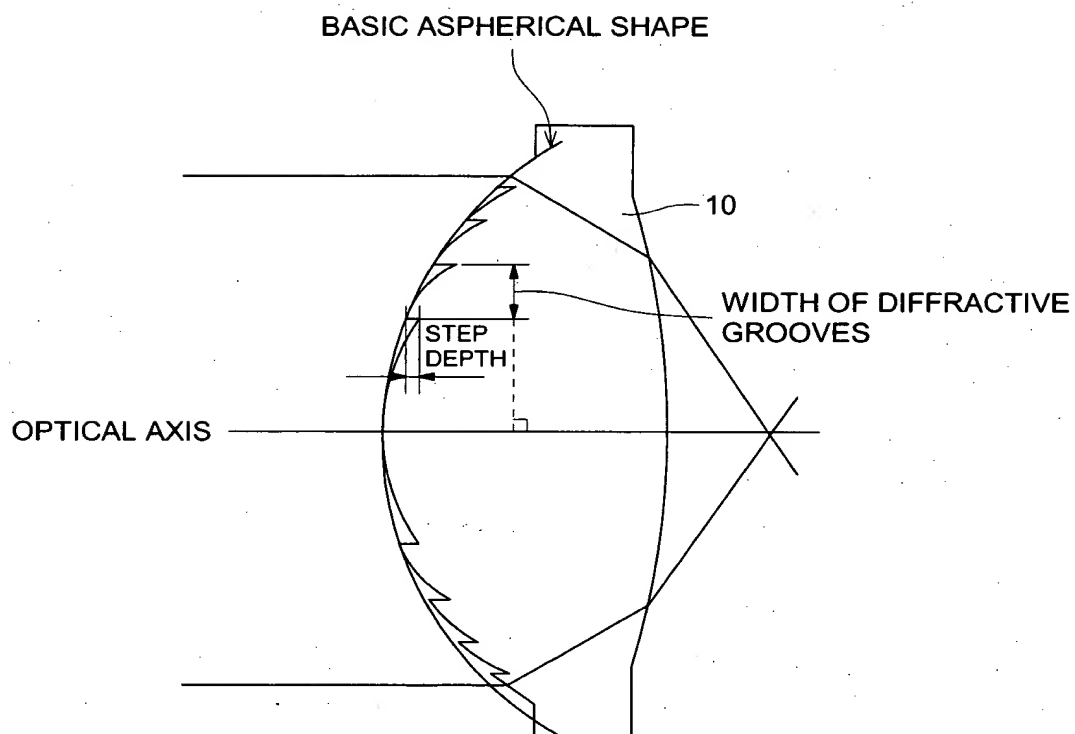




FIG. 2

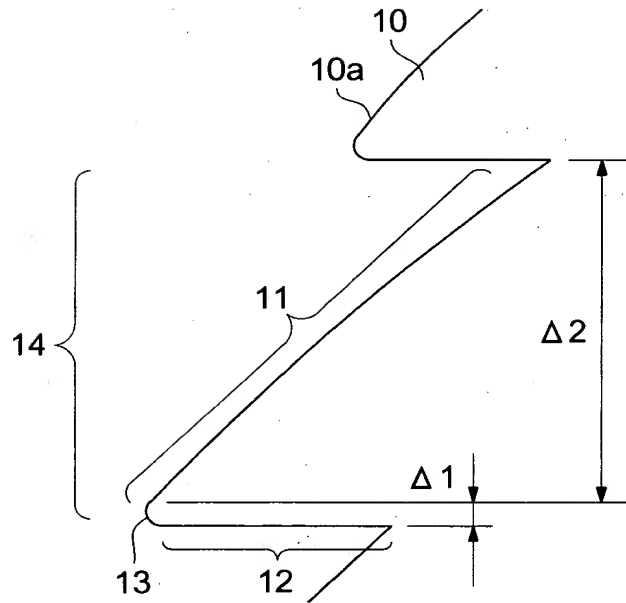


FIG. 3

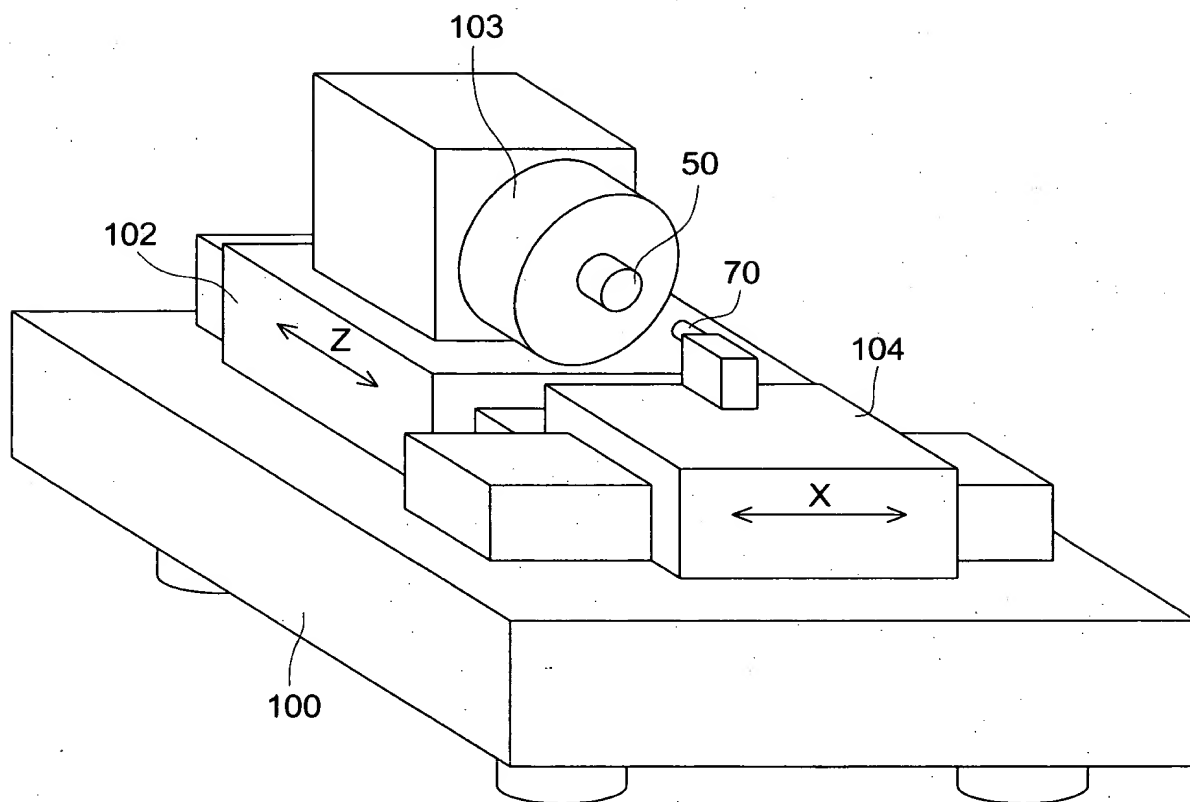


FIG. 4 (a)

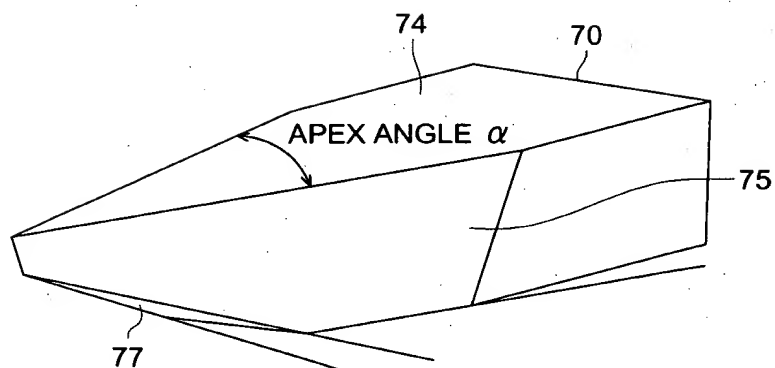


FIG. 4 (b)

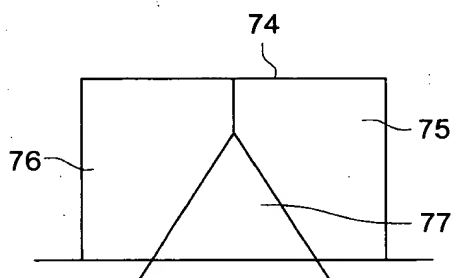


FIG. 4 (c)

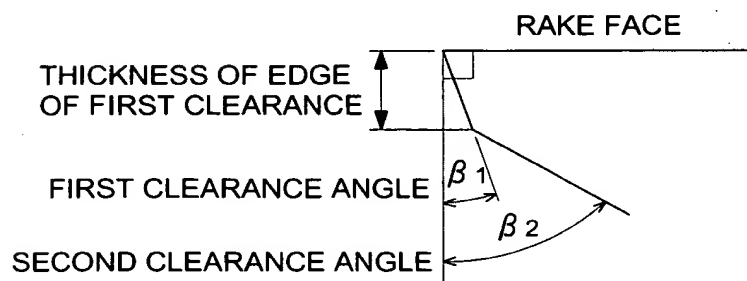
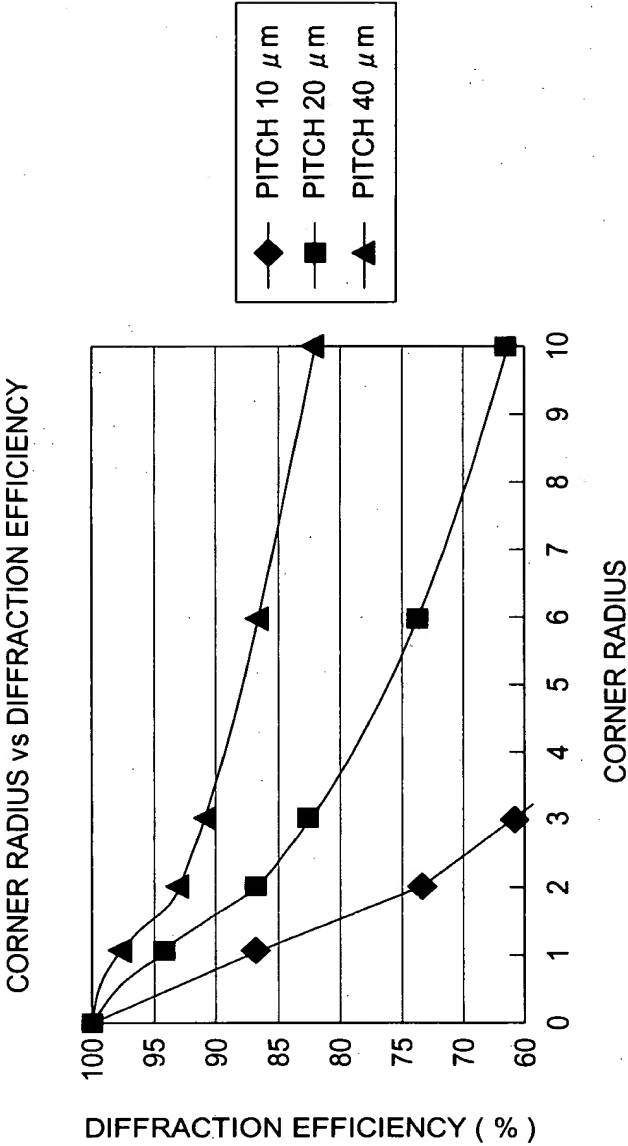




FIG. 5



REMARKS) SCALAR CALCULATION OF DIFFRACTION EFFICIENCY BY SAWTOOTH SHAPE
REFRACTIVE INDEX: $n = 1.5$
USED WAVELENGTH: 650 nm
BLAZED WAVELENGTH: 650 nm
STEP DEPTH: 1.3 μm



FIG. 6

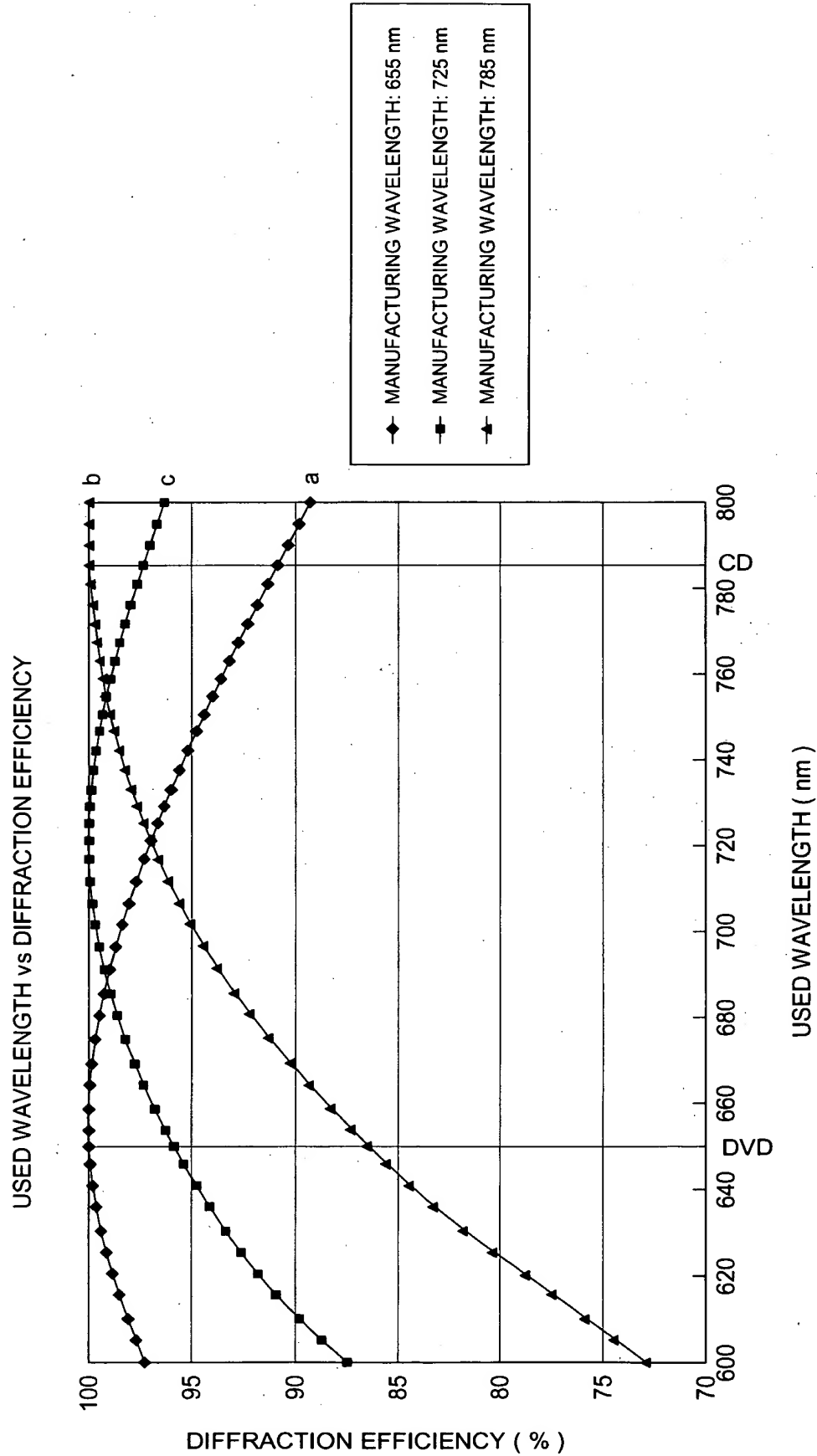


FIG. 7 (a)

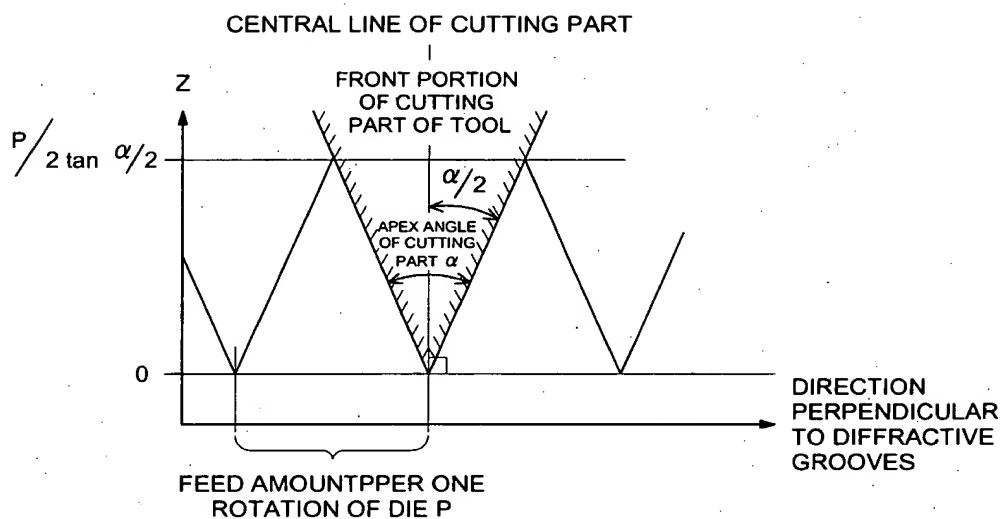


FIG. 7 (b)

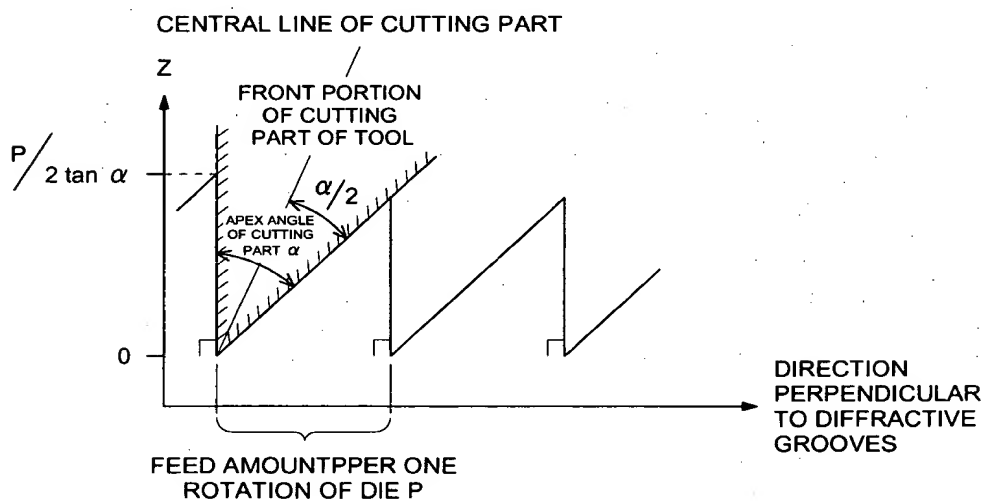


FIG. 7 (c)

(Rz)

APEX ANGLE OF CUTTING PART	FIG. 7a	FIG. 7b
10°	5.71P	5.67P
30°	1.87P	1.73P
40°	1.37P	1.19P



FIG. 8

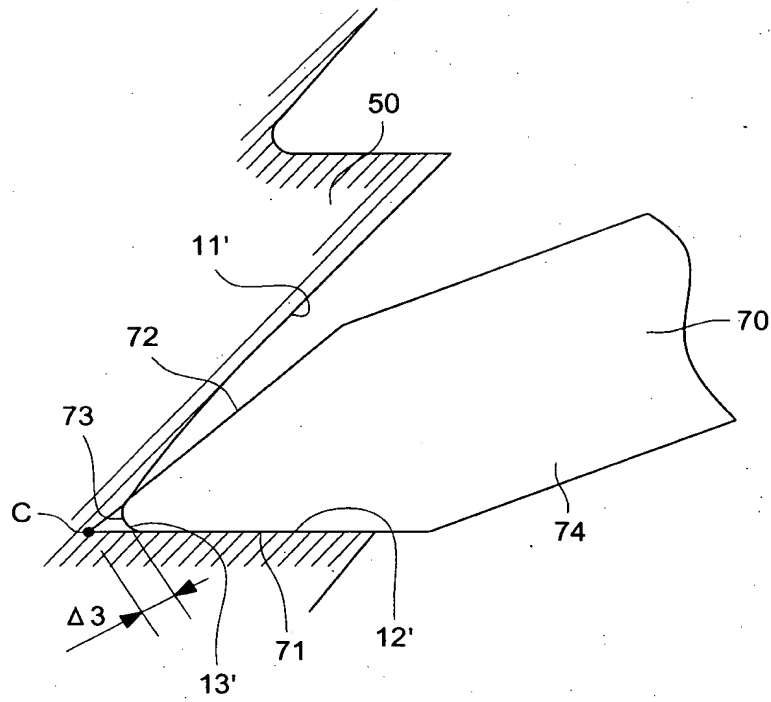


FIG. 9

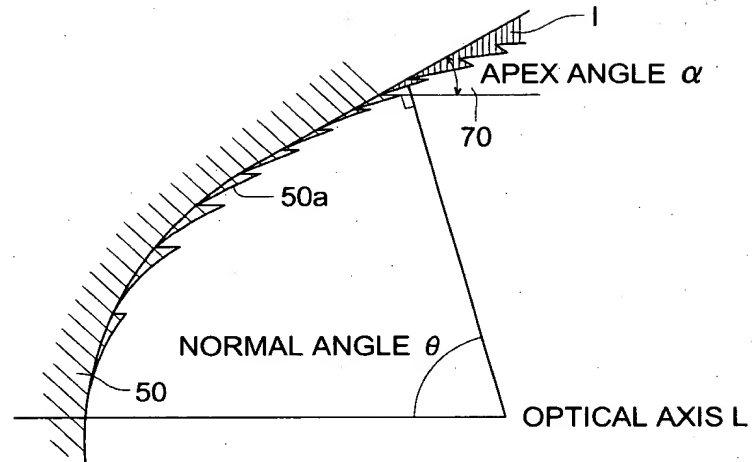


FIG. 10

